

DEPARTMENT OF TRANSPORTATION
UNITED STATES COAST GUARD
MAINTENANCE AND LOGISTICS COMMAND

SPECIFICATIONS FOR
REPLACE/REPAIR FUEL STORAGE TANKS

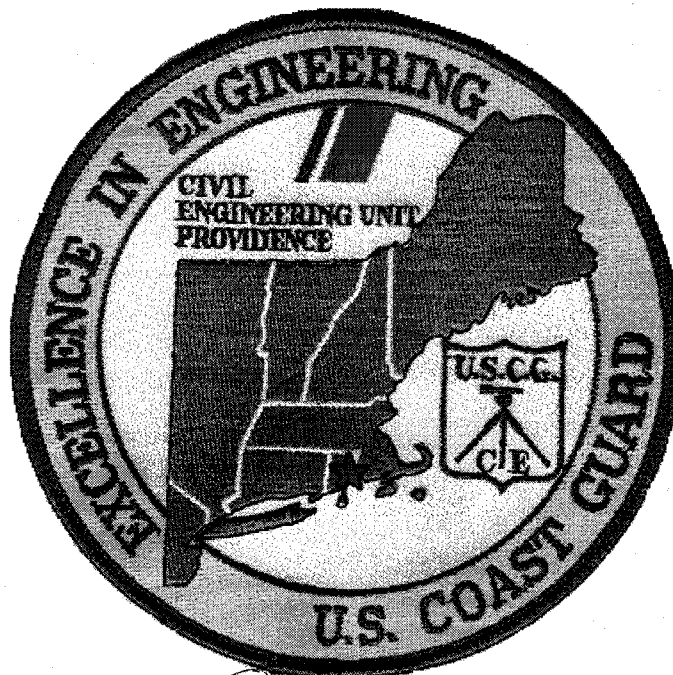
PSN 01- P99017

AT

U. S. COAST GUARD
STATION FIRE ISLAND
BABYLON, NEW YORK
(SUFFOLK COUNTY)

A. Stendler
PROJECT ENGINEER

C. W. Jones, P.E.
BRANCH CHIEF



A. A. Jacobs
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TECHNICAL DIRECTOR
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CIVIL ENGINEERING UNIT PROVIDENCE
300 METRO CENTER BLVD.
WARWICK, RHODE ISLAND 02886

SECTION 01015

GENERAL PARAGRAPHS

PART 1 GENERAL

1.1 GENERAL DESCRIPTION

The work includes the following: removal and disposal of the existing aboveground 2- 250 gal. heating fuel storage tanks, 1 – 250 gal. waste oil tank, 1 – 1,000 gal. gasoline storage tank and dispenser, 1 – diesel fuel dispenser; provision of new 2 – 250 gal. heating tanks, 1-250 gal. waste oil tank, 1 - 1,000 gal. gasoline fuel tank, 1- diesel fuel dispenser, 1 – gasoline dispenser, level and overfill sensors, repairs to the existing 5,000 gal. diesel fuel storage tank, required electrical connections and incidental related work.

1.2 LOCATION

The work shall be accomplished at the Coast Guard Station Fire Island in Babylon, NY. Site visits shall be arranged with MKC E. Bautista, telephone 631-661-9101. Only scheduled visits will be honored.

1.3 PROJECT INFORMATION

Contractor shall provide all necessary labor, tools, material and equipment to remove and dispose of the existing 3-250 gal. tanks and 1- 1,000 gal tank, fuel dispensers and provision of new 3 – 250 gal. tanks 1- 1,000 gallons tank, dispenser, 2 – fuel dispensers, electrical work.

Drawing P0011293 sheets 1 through 3 provide additional requirements under this contract.

PART 2

2.1 STATION REGULATIONS

The contractor, employees and subcontractor personnel shall obey station regulations while conducting work at the Coast Guard facility including fire, traffic, and security regulations.

2.2 WORKING HOURS

Regular working hours shall be from 7 a.m. to 5 p.m. Monday through Friday, excluding government holidays.

2.3 ORDER OF WORK

The contractor shall schedule his work so as to cause the least amount of interruption with station operations. At the Pre-Construction Conference, submit a schedule of work in accordance with FAR Clause 52.236-15 to the contracting officer's for approval, prior to commencing the work. ***All site work shall commence after May 15, 2001.***

2.4 EXISTING FACILITIES TO REMAIN

The contractor is responsible for correcting damage caused by the contractor's efforts to existing government facilities, which are to remain at no further cost to the government. Protect existing walkways, paving, landscaping and building elements from damage.

2.5 SANITATION

The contractor will be permitted to use Station rest room facilities. However, this permission will be revoked if use of the facilities causes an abnormal cleaning burden upon the government.

2.6 CONSTRUCTION UTILITIES AND SERVICES

Electric power and water for use by the contractor are available on the government facility. The contractor will be permitted to use these facilities provided that the existing systems are not overloaded. The contractor is responsible for installing and removing connections to existing systems.

2.7 STORM PROTECTION

If a warning of severe weather is issued, the contractor shall take precautions to minimize danger to persons and protect the work and nearby government property.

2.8 ENVIRONMENTAL PROTECTION REQUIREMENTS

Provide and maintain, during the life of the contract, environmental protective measures to control pollution that develops during normal construction practice. Comply with Federal, State and Local regulations pertaining to the environment, including water, air and noise pollution.

2.9 DUST CONTROL

The contractor shall ensure that measures are included that minimize the extent of dust created during the contract and that any dust and debris created does not become a nuisance to government or private concerns.

END OF SECTION

SECTION 01315

ADDITIONAL PARAGRAPHS

PART 1 GENERAL

1.1 TELEPHONES

No telephones will be available for use by the Contractor.

1.2 SAFETY

The Contractor shall follow all OSHA regulations, which pertain to the work done under this contract. .

PART 2 SUBMITTALS

2.1 SUBMITTAL DEFINITIONS

Shop drawings, product data, samples, and administrative submittals presented for review and approval. Contract Clauses "FAR 52.236-5, Materials and Workmanship," paragraph (b) and "FAR 52.236-21, Specifications and Drawings for Construction," paragraphs (d), (e), and (f) apply to all "submittals."

2.2 TYPES OF SUBMITTALS

There are 2 types of submittals required:

- a. Product Data: Includes manufacturer's catalog data and installation instructions.
- b. Administrative Submittals: Data presented for review and approval, such as the Submittal Register, the Schedule of Values, the Construction Schedule, and Waste Disposal Records.

2.3 APPROVING AUTHORITY

The person authorized by the Government to approve a submittal.

2.4 SUBMITAL REGISTER

At the Pre-Construction Conference submit a copy of the submittal register attached to the end of this section which lists all the submittals required by the contract with planned submittal dates listed in indicated column for each submittal item. Alternate formats for the submittal register is not permitted. The Government will take no action on any other submittals until register is approved. Maintain at the site an up-to-date, approved submittal register showing the status of all submittals.

2.5 WASTE DISPOSAL RECORDS

Identify the destination of all hazardous and non-hazardous waste, including construction and demolition debris, and provide a Bill of Lading or receipt indicating its proper disposal.

2.6 AS-BUILT DRAWINGS

Maintain at the job site one set of full size contract drawings marked to show any deviations which have been made from the contract drawings. Upon completion of the work, deliver the marked set of prints to the

Contracting Officer. The request for final payment will not be approved until the marked prints are delivered to the Contracting Officer.

2.7 CONSTRUCTION SCHEDULE/SCHEDULE OF VALUES

At the Pre-Construction Conference submit a Construction Schedule/Schedule of Values in accordance with FAR Clause 52.236-15. The Schedule of Values shall be based on the actual cost breakdown of the bid price. The cost of insurance shall not listed as a separate item but included as part of each item of work. The actual cost of bonds may be paid as the first progress payment when a receipt from the bonding company is presented to the Contracting Officer. In addition, keep the Contracting Officer Representative informed daily of the expected delivery dates for major pieces of equipment and materials.

Construction Schedule/Schedule of Values shall be incorporated into one form which clearly indicates the start and completion dates and unit value of all major work components. Construction Schedule/Schedule of Values shall be issued by the Contractor on monthly basis, after each modification or if/when delays force changes to delivery dates.

Construction Schedule/Schedule of Values form shall incorporate at a minimum the following activities:

- a. Bonds
- b. Mobilization
- c. Demobilization
- d. Pre-Construction Submittals
- e. Work Activities
- f. In-Progress Submittals
- g. Final Government Inspection
- h. Close-out Submittals, i.e. Warranties, Operation and Maintenance Manual, Posted Instructions
- i. As-Built Drawings
- j. Daily Logs

2.8 IDENTIFYING SUBMITTALS

Identify each submittal by affixing or attaching identifying information, including the project title, the contract number, the name of the product and the specification section requiring the product, and the source of the submittal if provided by a subcontractor. All submittals must be under cover by a properly completed CEU Providence submittal approval request form.

2.9 SUBMITTAL QUANTITY

Submit 4 copies of required product data and administrative submittals.

-- END OF SECTION --

SECTION 02115

REMOVAL AND DISPOSAL OF FUEL OIL STORAGE TANKS

1. GENERAL

1.1 DESCRIPTION OF WORK

The work includes removing and disposing of gasoline aboveground storage tank, two heating oil tanks, one waste oil tank and two dispensers.

2. REMOVAL AND DISPOSAL OF ABOVEGROUND STORAGE TANKS.

Perform work to close, clean, remove and dispose of an aboveground storage tanks. Make tanks unusable for future use. Perform all work in strict accordance with all Suffolk County, State and Federal regulations. Provide a Bill of Lading or receipt indicated proper disposal of all removed material. All sludge removed from the tank shall be dispose off as a hazardous waste, unless contractor can show that the sludge does not meet definition of listed hazardous waste nor it possesses any of characteristics of hazardous waste. Contractor shall use the Station's EPA number in hazardous waste manifest.

2.1 Tank Closure

Perform work to close, remove, and dispose of aboveground storage tanks and dispensers.

2.1.1 Regulations

Perform work in accordance with Suffolk County , State, and Federal regulations and 40 CFR 280.

2.2 SUBMITTALS

2.2.1 Statements

2.2.1.1.Tank and Piping Removal and Disposal Plan

Describe methods, means, sequence of operations, and schedule to be employed in the pumping, cleaning, de-vaporizing, inspecting, removal, transportation and disposal of the storage tank and piping.

2.2.1.2 Removal and Disposal of Hazardous Waste

Describe methods, means and disposal of hazardous waste.

2.2.1.3 Spill and Discharge Control Plan

Describe procedures and plan related to potential spills and discharge of contaminated soils and water.

2.2.1.4 Permits.

Contractor is responsible for all required permits and any and all notification requirements, including notification to Suffolk County..

2.2.1.5 Records

- a. Close – out documentation.
- b. Bill of lading.

3.0 EXECUTION

3.1 REMOVAL AND DISPOSAL OF TANKS AND DISPENSERS

Furnish labor, materials, necessary permits, and equipment to remove and dispose of products remaining in the tanks, clean and vapor free the tank and connecting piping. Provide work in accordance with 40 CFR 280 and in accordance with appropriate Federal, State and local regulations.

3.2 UNFORESEEN HAZARDS

Notify the Contracting Officer of any unforeseen hazard or condition which becomes evident during work . .

3.3 TANK REMOVAL

Make tank unusable for future use, then transport and dispose of tank in accordance with Federal, State, and local regulations. Provide the Contracting Officer with disposal documentation.

END OF SECTION

SECTION 02555

FUEL OIL STORAGE TANKS AND DISPENSERS

1. GENERAL

Provide the Aboveground Tank System approved for listing under U.L., Subject 2085, Aboveground Tanks, Protected Type, Secondly Contained. Unit must comply with all provisions of U.F.C. 79-7, Appendix A-II-F. The tank and its enclosure shall be a completed unit at the factory (shop) fabricated.

2. REFERENCES

UL 698	Industrial Control Equipment for Use in Hazardous (Classified) Locations
UL 886	(1994: Rev thru Apr 1999) Outlet Boxes and Fittings for Use in Hazardous (Classified) Locations

3. SUBMITTALS:

3.1. Manufacturer's Catalog Data

- a. Gasoline fuel storage tank and all accessories.
- b. Heating oil storage tanks and all accessories
- c. Waste oil storage tank and all accessories
- d. Diesel fuel dispenser.
- e. Gasoline dispenser
- f. Tank level and overfill sensors.
- g. Solenoid valve
- h. Primary and secondary pipe and fittings.
- i. Tank gages
- j. Electric wiring and fittings

3.2 Field Test Reports

- a. Operational test.

3.3 Maintenance and operating manuals

- a. Dispenser

4. PRODUCTS

4.1 STORAGE TANKS

The new gasoline, heating oil and waste oil storage tanks shall be double wall or self contained steel tanks. The tanks and piping shall comply with, attached to this specification, Suffolk County Department of Health Services ABOVEGROUND OUTDOOR TANK AND ASSOCIATED PIPING DESIGN STANDARDS. Tank shall be listed by Suffolk County Department of Health Services as generically approved storage facilities. A list of approved manufacturers and model numbers is attached to this specification. The gasoline tank shall be equipped with Stage I vapor recovery system.

4.1. 1 Tank Gages: MIL-G-17713 buoyant force type with direct reading dial.

4.2 GASOLINE FUEL DISPENSER:

UL listed for use for gasoline fuel, pump 115V, single phase, 1/2 HP for maximum flow up to 15 GPM, interlocked with fuel dispenser handle for positive shutoff when not fueling. Dispenser shall be as manufactured by Gasboy International, Model 9152 or approved equal.

4.3 DIESEL FUEL DISPENSER

UL listed for use for diesel fuel, for maximum flow up to 15 GPM, interlocked with fuel dispenser handle for positive shutoff when not fueling. Dispenser shall be as manufactured by Gasboy International, Model 9152AX or approved equal

4.4 SOLENOID VALVE:

Normally closed, cast bronze body, globe pattern, explosion-proof.

4.5 HIGH LEVEL AND FUEL LEVEL SYSTEM

Provide the following sensors and probes for the new tanks:

4.5.1 Provide new sensors for interstitial space leak detection.

4.5.2 Provide probe for high level tank alarm. Alarm shall sound when oil tank is at 90% of capacity

4.5.3 Provide fuel oil level probe.

4.5.4 The standard sensors must be probes. Probes must be UL listed and provide connections for intrinsically safe sensor circuits for use in Class 1, Division 1, Groups C & D Hazardous Locations. All new components shall be compatible with Weeder-Root, Model TLC 350, the manufacturer of the existing system.

4.6 PIPING:

4.6.1 Primary Piping: Black carbon steel, ASTM A 53, Grade A or B, Schedule 40.

4.6.2. Double-wall secondary containment: Exterior containment pipe shall be fiberglass and listed by Underwriters Laboratories for services intended and sizes to contain 110 percent of the total volume of the primary inner pipe and additional equipment required such as leak detection cable.

5 EXECUTION

5.1 Install all tanks and dispenser in accordance with manufacturer's instructions. All tanks shall anchored and grounded.

5.2 Electrical Work: Provide switches and devices required for controlling electrical equipment. Pumps shall be wired and ready for connection to power circuit. Wiring, equipment, and fittings shall be explosion-proof in conformance with applicable requirements of UL 674, UL 698, and UL 886 for Class I, Division 1, Group C and D hazardous locations. Submit proof of such conformance

5.3 Operational Test:. Operate fuel dispensing equipment to demonstrate capability of fuel pumps to deliver desired flow. The Contracting Officer shall witness tests, and the Contractor shall notify the Contracting Officer 5 days before testing.

5.4 Maintenance and Operating Manuals: Provide 3 sets of maintenance and operating manuals for the dispensers. The information for O & M shall include the following information:

- a. Safety Precautions
- b. Maintenance and Repair Procedures
- c. Warranty Information
- d. Contractor Information

5.5 Contractor shall repair the existing 5000 gallon diesel fuel oil tank as indicated in “Tank Repair Note” on Drawing P001293, Sheet 3. Submit a repair plan and material to be used to the Contracting Officer for approval.

END OF SECTION

Project Number: 01-P99017			Project Title: Replace/Repair Fuel Oil Storage Tanks				Location: Sta Fire Island, N.Y.		
Spec Section No. Or Item No.	SD No., And Type Of Submittal Material Or Product	Spec Para No.	Planned Submittal Date	Date Fwd To Appr Auth / Date Recd From Contr	Date Fwd To Other Reviewer	Date Recd From Oth Reviewer	Action Code	Date Of Action	Mailed To Contr / Recd From Appr Auth
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Sec 01315	Submittals	2							
1	Submittal Register	2.4							
2	Waste Disposal Records	2.5							
3	As-Built Drawings	2.6							
4	Schedule of Values	2.7							
Sec 02115	Statements	2.2.1							
1	Tank and Piping Removal and Disposal Plan	2.2.1.1							
2	Removal and Disposal of Hazardous Waste	2.2.1.2							
3	Spill and Discharge Control Plan	2.2.1.3							
4	Permits	2.2.1.4							
5	Records	2.2.1.5							
6	Close – out documentation	2.2.1.5.a							
7	Bill of Lading	2.2.1.5.a							
Sec 02555	Manufacturer's Catalog Data:	2.1							
1	Gasoline Storage Tank	2.1.a							
2	Heating Oil Storage Tank	2.1.b							
3	Waste Oil Storage Tank	2.1.c							
4	Diesel Fuel Dispenser	2.1.d							

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